

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0005_01_s_2013_11				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0005_01_s_2013_12				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0005_01_s_2013_13				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	0.05	Rating **	M	Issue No.	45
LM End	0.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.696790 °	39.696790 °
				-121.774154 °	-121.774154 °
DWR ID	DWR_MA0005_01_f_2016_45				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Remove wood logs from the waterside slope and trim trees to at least five feet above the levee slope.					

Photo 1 of 1 : FA\_2018\_MA0005\_196\_45\_20180905\_00022.jpg



View of the wood logs on the landside slope.

LM Start	0.07	Rating **	M	Issue No.	46
LM End	0.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.696611 °	39.696611 °
				-121.774349 °	-121.774349 °
DWR ID	DWR_MA0005_01_f_2016_46				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_MA0005\_196\_46\_20180905\_00023.jpg



View of the damaged slope by foot traffic.

LM Start	0.08	Rating **	M	Issue No.	47
LM End	0.08	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.696476 °	39.696476 °
				-121.774582 °	-121.774582 °
DWR ID	DWR_MA0005_01_f_2016_47				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove prunings on the waterside and landside slopes to allow visibility.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	0.56	Rating **	M	Issue No.	903
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.690745°	39.690745°
				-121.777342°	-121.777342°
DWR ID	DWR_MA0005_01_s_2012_903				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	0.58	Rating **	M	Issue No.	32
LM End	0.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.690496°	39.689137°
				-121.777109°	-121.776938°
DWR ID	DWR_MA0005_01_s_2014_32				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_MA0005\_196\_32\_20180905\_00012.jpg



View of the trees along the landside toe blocking visibility.

LM Start	0.81	Rating **	M	Issue No.	48
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.687332 °	39.687332 °
				-121.777456 °	-121.777456 °
DWR ID	DWR_MA0005_01_f_2016_48				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	1.01	Rating **	M	Issue No.	51
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.684497°	39.684497°
				-121.776905°	-121.776905°
DWR ID	DWR_MA0005_01_f_2016_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.11	Rating **	M	Issue No.	52
LM End	1.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.683208°	39.682695°
				-121.776279°	-121.776325°
DWR ID	DWR_MA0005_01_f_2016_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.58	Rating **	M	Issue No.	73
LM End	1.68	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 USACE Erosion Survey, DRAFT			39.676588 °	39.675280 °
				-121.777977 °	-121.779005 °
DWR ID	DWR_MA0005_01_f_2018_73				
Comment Code					
Inspector Comment					
2017 Site ID: BTC 1.8 L					
Status: Eroding New					
2017 Field Notes: Long vertical scarp on toe.					
Site History:					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	1.60	Rating **	A/W	Issue No.	71
LM End	1.64	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2017 Storm Damage			39.676298 °	39.675818 °
				-121.778272 °	-121.778630 °
DWR ID	DWR_MA0005_01_f_2017_71				
Comment Code					
Inspector Comment					
Levee Evaluation Comments					
Description:					
Site ID No:224					
Site Designation:MA5-N-01					
Repair Type: Erosion					
Rating:Serious					
Field Date:6/8/2017					
Notes: This soil has more sand and less clay than the other MA5 site, more clay in the levee than in the bank here. There are several small bank erosion sites nearby.					

No Photos

LM Start	1.61	Rating **	M	Issue No.	16
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.676129°	39.676129°
				-121.778171°	-121.778171°
DWR ID	DWR_MA0005_01_s_2013_16				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_MA0005\_196\_16\_20180905\_00006.jpg



View of the unauthorized vehicle ramp on the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	2.54	Rating **	M	Issue No.	9
LM End	2.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.663876 °	39.663876 °
				-121.784014 °	-121.784014 °
DWR ID	DWR_MA0005_01_f_2012_9				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_MA0005\_196\_9\_20180905\_00004.jpg



View of the vehicle erosion along the landside slope.

LM Start	3.87	Rating **	A/W	Issue No.	905	
LM End	3.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.646217 °		39.646217 °
				-121.785431 °		-121.785431 °
DWR ID	1616					
Comment Code						
Inspector Comment						
FS_ID:51949						
DS_ID:1616						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/15/2017 Crossing appears to be in good condition.						
LS inlet is located in the Distribution box on the LS toe. This is an						
overflow pipe used to regulate water levels in side the box. Pipe has						
been selected to be internally cleaned and inspected as part fo the						
DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing						
appears to be in good condition. (DWR Sutter Yard-						
AFreitag)5/9/2016 Crossing appears to be in good						
condition.8/5/2015 WS pipe end is being overgrown by trees and						
other vegetation. Needs to be cleared back.12/8/2014 Same as last						
inspection.6/11/2014 Same as last inspection.11/20/2013 Same as						
last inspection.5/29/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 16.5 feet below the crown. Slide gate in a corrugated						
metal riser on the waterside (WS) slope. Flap gate on the WS toe. Inlet						
on the landside (LS) toe, not found. [Additional Reference(s): DWR						
Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960,						
(Station 381+36)].						
FS Date: 5/31/2017 12:32:00 PM						

Photo 1 of 3 : UCIP\_FA\_2018\_51949\_67931.jpg



CMP riser and slide gate on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	3.87	Rating **	A/W	Issue No.	905 (cont)	
LM End	3.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.646217 °	39.646217 °	
				-121.785431 °	-121.785431 °	
DWR ID	1616					
Comment Code						
Inspector Comment						
FS_ID:51949 DS_ID:1616 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/15/2017 Crossing appears to be in good condition. LS inlet is located in the Distribution box on the LS toe. This is an overflow pipe used to regulate water levels in side the box. Pipe has been selected to be internally cleaned and inspected as part fo the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 WS pipe end is being overgrown by trees and other vegetation. Needs to be cleared back.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. Flap gate on the WS toe. Inlet on the landside (LS) toe, not found. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 381+36)]. FS Date: 5/31/2017 12:32:00 PM						

Photo 2 of 3 : UCIP\_FA\_2018\_51949\_67930.jpg



Unable to locate inlet on LS.

LM Start	<b>3.87</b>	Rating **	A/W	Issue No.	<b>905 (cont)</b>
LM End	<b>3.87</b>	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_FA\_2018\_51949\_67929.jpg



Flap gate in channel at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	3.87	Rating **	A/W	Issue No.	906	
LM End	3.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.646194 °	39.646194 °	
				-121.785418 °	-121.785418 °	
DWR ID	1617					
Comment Code						
Inspector Comment						
FS_ID:51950						
DS_ID:1617						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/15/2017 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 Crossing appears in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Pipe appears to be currently used for irrigation purposes. 4-foot by 8-foot concrete distribution box on the landside (LS), 40 feet from the LS toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 381+42)].						
FS Date: 5/31/2017 12:37:02 PM						

LM Start	<b>3.87</b>	Rating **	A/W	Issue No.	<b>906 (cont)</b>
LM End	<b>3.87</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51950\_67934.jpg



CMP riser and slide gate on WS shoulder.

Photo 2 of 3 : UCIP\_FA\_2018\_51950\_67933.jpg



CMP riser at other end of siphon on south west side of bridge.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	3.87	Rating **	A/W	Issue No.	906 (cont)	
LM End	3.87	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.646194 °	39.646194 °	
				-121.785418 °	-121.785418 °	
DWR ID	1617					
Comment Code						
Inspector Comment						
FS_ID:51950						
DS_ID:1617						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/15/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/9/2016 Crossing appears to be in good condition.8/5/2015 Crossing appears in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/20/2013 Same as last inspection.5/29/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Slide gate in corrugated metal riser on the waterside (WS) slope. Pipe appears to be currently used for irrigation purposes. 4-foot by 8-foot concrete distribution box on the landside (LS), 40 feet from the LS toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 381+42)].						
FS Date: 5/31/2017 12:37:02 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_51950\_67932.jpg



Concrete distribution box on LS, 40-feet from LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	5.56	Rating **	M	Issue No.	908
LM End	5.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.624559 °	39.624559 °
				-121.772141 °	-121.772141 °
DWR ID	1768				

**Comment Code**

**Inspector Comment**

FS\_ID:51954  
DS\_ID:1768  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/15/2017 Abandoned and needs to be done properly. A sink hole formed in the WS toe road and revealed the location of the WS pipe end. Sink hole will need to be repaired before the next high water season but the pipe has been selected to be internally cleaned and camera inspected as part of the DMP project so it will have needed to be excavated along the WS end anyways. (DWR Sutter Yard- A/Freitag)11/15/2016 Abandoned. Needs standpipe cover. (DWR Sutter Yard- A/Freitag)5/9/2016 Abandoned pipe. Needs a cover for standpipe.8/5/2015 Abandoned pipes. Need covers made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate on WS. FIELD\_STRUCT\_DESC: \*ABANDONED\* 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" shaped headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960, (Station 470+00)].  
FS Date: 5/31/2017 12:52:00 PM

LM Start	<b>5.56</b>	Rating **	M	Issue No.	<b>908 (cont)</b>
LM End	<b>5.56</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51954\_67939.jpg



Headwall at LS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_51954\_67938.jpg



Headwall at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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LM Start	5.56	Rating **	M	Issue No.	908 (cont)	
LM End	5.56	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.624559 °	39.624559 °	
				-121.772141 °	-121.772141 °	
DWR ID	1768					
Comment Code						
Inspector Comment						
FS_ID:51954 DS_ID:1768 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/15/2017 Abandoned and needs to be done properly. A sink hole formed in the WS toe road and revealed the location of the WS pipe end. Sink hole will ned to be repaired before the next high water season but the pipe has been selected to be internally cleaned and camera inspected as part of the DMP project so it will have needed to be excavated along the WS end anyways. (DWR Sutter Yard- A Freitag)11/15/2016 Abandoned. Needs standpipe cover. (DWR Sutter Yard- A Freitag)5/9/2016 Abandoned pipe. Needs a cover for standpipe.8/5/2015 Abandoned pipes. Need covers made for tops of standpipes to prevent falls. 12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate on WS. FIELD_STRUCT_DESC: *ABANDONED* 2 of 2: 36-inch corrugated metal drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" shaped headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960, (Station 470+00)]. FS Date: 5/31/2017 12:52:00 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_51954\_67937.jpg



Slide gate at bottom of cmp riser.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	5.56	Rating **	M	Issue No.	909
LM End	5.56	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.624559 °	39.624559 °
				-121.772141 °	-121.772141 °
DWR ID	1620				
Comment Code					
Inspector Comment					
FS_ID:51955 DS_ID:1620 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/15/2017 Abandoned and needs to be done properly. A sink hole formed in the WS toe road and revealed the location of the WS pipe end. Sink hole will need to be repaired before the next high water season but the pipe has been selected to be internally cleaned and camera inspected as part of the DMP project so it will have needed to be excavated along the WS end anyways. (DWR Sutter Yard- A Freitag)11/15/2016 Abandoned. Needs cover for the standpipe. (DWR Sutter Yard- A Freitag)5/9/2016 Abandoned pipe. Needs a cover for the standpipe.8/5/2015 Abandoned crossing. Covers need to be made for tops of standpipes to prevent falls.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. Land owner said pipes are abandoned and no longer used. Covers should be made for top of standpipe to prevent falls. Pipes should be properly abandoned.10/30/2012 Pipe 1/2 filled with soil at slide gate end. FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 36-inch drainage pipe through the levee, 11 feet below the crown. Slide gate in a 54-inch corrugated metal riser on the waterside (WS) slope. Concrete "U" headwall on the landside (LS). [Additional Reference(s): DWR Levee Log, 1990. Sacramento O&M Manual 516, April 1960 (Station 470+00)]. FS Date: 5/31/2017 1:00:19 PM					

LM Start	<b>5.56</b>	Rating **	M	Issue No.	<b>909 (cont)</b>
LM End	<b>5.56</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_51955\_67941.jpg



Headwall at LS toe.

Photo 2 of 2 : UCIP\_FA\_2018\_51955\_67940.jpg



54-inch CMP riser and slide gate on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Sutter Maintenance Yard Maintenance Area 0005

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	5.81	Rating **	U	Issue No.	56
LM End	5.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.621261 °	39.621261 °
				-121.773973 °	-121.773973 °
DWR ID	DWR_MA0005_01_f_2016_56				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>56 (cont)</b>
LM End	<b>5.81</b>	Issue Type +	Ma	Location *	LS

View of the landside toe erosion.

Another view of the landside toe erosion.

LM Start	6.36	Rating **	A	Issue No.	66
LM End	6.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.613968 °	39.613968 °
				-121.778192 °	-121.778192 °
DWR ID	DWR_MA0005_01_f_2018_66				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was removed from both slopes.					

View of no vegetation on both slopes.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	7.58	Rating **	M	Issue No.	911
LM End	7.58	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.597725 °	39.597725 °
				-121.787257 °	-121.787257 °
DWR ID	1628				
Comment Code					
Inspector Comment					
FS_ID:51970					
DS_ID:1628					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 5/16/2017 LS inlet is almostc ompletely buried.					
Nothing visible on the WS. Pipe has been selected to be internally					
cleaned and inspected as part of the DMP poject. (DWR Sutter Yard-					
AFreitag)11/15/2016 Appears abandoned and should be done so					
properly. (DWR Sutter Yard- AFreitag)5/11/2016 Possibly an					
abandoned crossing. LS inlet was over 50% buried and nothing was					
found on the WS.8/4/2015 LS pipe end filled about 50% with soil and					
WS pipe end is buried.12/8/2014 Same as last					
inspection.6/11/2014 Same as last inspection.11/19/2013 Same as					
last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe					
filled with soil and outlet/appurtances are burried.					
FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal					
drainage pipe through the levee, 8.5 feet below the crown. Flap gate on					
the waterside (WS). Concrete ""U"" shaped headwall on the landside					
(LS) toe. [Additional Reference(s): DWR Levee Log, 1990. USACE					
Sacramento O&M Manual 515, April 1955, (Station 576+72). USACE					
As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 2, April 1950, (Station					
576+72.4)].					
FS Date: 5/31/2017 1:58:05 PM					

Photo 1 of 2 : UCIP\_FA\_2018\_51970\_67970.jpg



Headwall at LS toe.

LM Start	<b>7.58</b>	Rating **	M	Issue No.	<b>911 (cont)</b>
LM End	<b>7.58</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP\_FA\_2018\_51970\_67969.jpg



Headwall at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	<b>7.70</b>	Rating **	A/W	Issue No.	<b>72</b>
LM End	<b>7.70</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	2017 Storm Damage		39.596076°	39.596076°	
			-121.788123°	-121.788123°	
DWR ID	DWR_MA0005_01_f_2017_72				
Comment Code					
Inspector Comment					
Levee Evaluation Comments Description: Site ID No:225 Site Designation:MA5-02 Repair Type: Erosion Rating:Area of Concern Field Date:6/8/2017 Notes: Total length is 108 ft.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.21	Rating **	M	Issue No.	912	
LM End	8.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.589751 °	39.589751 °	
				-121.792818 °	-121.792818 °	
DWR ID	1629					
Comment Code						
Inspector Comment						
FS_ID:51972 DS_ID:1629 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 LS inlet is half blocked off by flash boards and sediment. WS flap gate is blocked closed by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 LS inlet was unburied and entire pipe is about 25% full of soil. WS flapgate was shut and partially buried. (DWR Sutter Yard- AFreitag)5/11/2016 WS flap gate was about 50% buried and LS was 100% buried. Appears to be an abandoned crossing.8/4/2015 WS flap gate is partially buried by soil and being overgrown with vegetation. LS pipe end was underwater and suspected to still be completely buried with soil.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 609+79). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 609+78.5)]. FS Date: 5/31/2017 1:59:10 PM						

LM Start	8.21	Rating **	M	Issue No.	912 (cont)
LM End	8.21	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_51972\_67973.jpg



Outlet at WS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_51972\_67972.jpg



Buried inlet at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.21	Rating **	M	Issue No.	912 (cont)	
LM End	8.21	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.589751 °		39.589751 °
				-121.792818 °		-121.792818 °
DWR ID	1629					

**Comment Code**

**Inspector Comment**

FS\_ID:51972

DS\_ID:1629

EP\_NO: N/A

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 5/16/2017 LS inlet is half blocked off by flash boards and sediment. WS flap gate is blocked closed by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 LS inlet was unburied and entire pipe is about 25% full of soil. WS flapgate was shut and partially buried. (DWR Sutter Yard- AFreitag)5/11/2016 WS flap gate was about 50% buried and LS was 100% buried. Appears to be an abandoned crossing.8/4/2015 WS flap gate is partially buried by soil and being overgrown with vegetation. LS pipe end was underwater and suspected to still be completely buried with soil.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe filled with soil.

FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 609+79). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 609+78.5)].

FS Date: 5/31/2017 1:59:10 PM

Photo 3 of 3 : UCIP\_FA\_2018\_51972\_67971.jpg



Flap gate at WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	<b>9.52</b>	Rating **	A/W	Issue No.	<b>914</b>
LM End	<b>9.52</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.575072°	39.575072°	
			-121.807805°	-121.807805°	
DWR ID	1775				

**Comment Code**

**Inspector Comment**

FS\_ID:51976  
DS\_ID:1775  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Crossing appears to be in good condition.  
(DWR Sutter Yard- A Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing is in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch.10/30/2012 Seems there should be flap gates on this structure.  
FIELD\_STRUCT\_DESC: [Robert's Creek Outlet Structure] 1 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 678+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 678+00)].  
FS Date: 5/31/2017 2:10:41 PM

LM Start	<b>9.52</b>	Rating **	A/W	Issue No.	<b>914 (cont)</b>
LM End	<b>9.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_51976\_67979.jpg



WS of pipe crossing

Photo 2 of 2 : UCIP\_FA\_2018\_51976\_67978.jpg



LS of pipe crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	915
LM End	9.52	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.575036 °	39.575036 °
				-121.807807 °	-121.807807 °
DWR ID	1774				

**Comment Code**

**Inspector Comment**

FS\_ID:51977  
DS\_ID:1774  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Crossing appears to be in good condition.  
(DWR Sutter Yard- A Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing is in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch.10/30/2012 Seems there should be flap gates on this structure.  
FIELD\_STRUCT\_DESC: [Robert's Creek Outlet Structure] 2 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 678+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 678+00)].  
FS Date: 5/31/2017 2:12:05 PM

LM Start	<b>9.52</b>	Rating **	A/W	Issue No.	<b>915 (cont)</b>
LM End	<b>9.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_51977\_67981.jpg



WS of crossing.

Photo 2 of 2 : UCIP\_FA\_2018\_51977\_67980.jpg



LS of crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	916	
LM End	9.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.575000 °	39.575000 °	
				-121.807808 °	-121.807808 °	
DWR ID	1632					
Comment Code						
Inspector Comment						
FS_ID:51978						
DS_ID:1632						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch.10/30/2012 Seems there should be flap gates on this structure.						
FIELD_STRUCT_DESC: [Robert's Creek Outlet Structure] 3 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 678+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 678+00)].						
FS Date: 5/31/2017 2:13:48 PM						

LM Start	<b>9.52</b>	Rating **	A/W	Issue No.	<b>916 (cont)</b>
LM End	<b>9.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_51978\_67982.jpg



WS of crossing.

Photo 2 of 2 : UCIP\_FA\_2018\_51978\_67983.jpg



LS of crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	9.52	Rating **	A/W	Issue No.	917	
LM End	9.52	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.574964 °	39.574964 °	
				-121.807810 °	-121.807810 °	
DWR ID	1773					
Comment Code						
Inspector Comment						
FS_ID:51979						
DS_ID:1773						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Flap gates were removed by DWR Sutter Maintenance Yard to allow water to flow freely through crossing and not back up in ditch.10/30/2012 Seems there should be flap gates on this structure.						
FIELD_STRUCT_DESC: [Robert's Creek Outlet Structure] 4 of 4: 66-inch corrugated metal drainage pipe through the levee, 17.9 feet below the crown. Concrete headwalls on the landside (LS) and the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 678+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 678+00)].						
FS Date: 5/31/2017 2:14:38 PM						

LM Start	<b>9.52</b>	Rating **	A/W	Issue No.	<b>917 (cont)</b>
LM End	<b>9.52</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_51979\_67985.jpg



WS of crossing.

Photo 2 of 2 : UCIP\_FA\_2018\_51979\_67984.jpg



LS of crossing.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	10.84	Rating **	M	Issue No.	920
LM End	10.84	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.562559 °	39.562559 °
				-121.825808 °	-121.825808 °
DWR ID	1635				
Comment Code					
Inspector Comment					
FS_ID:51982					
DS_ID:1635					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 5/16/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)11/15/2016 Abandoned. (DWR Sutter Yard- A Freitag)5/11/2016 Abandoned crossing.8/4/2015 Abandoned pipe. Casey Wilder has started the steps to have the pipe properly abandoned and removed from the levee.12/8/2014 Same as last inspection.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/30/2012 Pipe buried on both sides of levee.					
FIELD_STRUCT_DESC: *ABANDONED* 30-inch corrugated metal drainage pipe through the levee, 12.2 feet below the crown. Flap gate on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 748+53). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 748+53)].					
FS Date: 5/31/2017 2:18:08 PM					

Photo 1 of 2 : UCIP\_FA\_2018\_51982\_67991.jpg



Concrete headwall at LS toe.

LM Start	<b>10.84</b>	Rating **	M	Issue No.	<b>920 (cont)</b>
LM End	<b>10.84</b>	Issue Type +	Ma	Location *	

Photo 2 of 2 : UCIP\_FA\_2018\_51982\_67990.jpg



Concrete headwall at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	10.87	Rating **	M	Issue No.	67
LM End	10.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.562177 °	39.562177 °
				-121.826072 °	-121.826072 °
DWR ID	DWR_MA0005_01_s_2017_67				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Repair the erosion along the water side slope.					

Photo 1 of 1 : FA\_2018\_MA0005\_196\_67\_20180905\_00032.jpg



View of erosion along the waterside slope.

LM Start	11.36	Rating **	A/W	Issue No.	922
LM End	11.36	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556741 °	39.556741 °
				-121.832071 °	-121.832071 °
DWR ID	1636				
Comment Code					
Inspector Comment					
FS_ID:51990 DS_ID:1636 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard-AFreitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 25+18""A"""). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18""A"""). FS Date: 5/31/2017 2:25:00 PM					

Photo 1 of 2 : UCIP\_FA\_2018\_51990\_68007.jpg



WS headwall and flap gates at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	11.36	Rating **	A/W	Issue No.	922 (cont)	
LM End	11.36	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.556741 °	39.556741 °	
				-121.832071 °	-121.832071 °	
DWR ID	1636					
Comment Code						
Inspector Comment						
FS_ID:51990 DS_ID:1636 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 1 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 25+18""A"""). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18""A""").] FS Date: 5/31/2017 2:25:00 PM						

Photo 2 of 2 : UCIP\_FA\_2018\_51990\_68006.jpg



LS intake headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	<b>11.36</b>	Rating **	A/W	Issue No.	<b>923</b>
LM End	<b>11.36</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.556716°	39.556716°	
			-121.832097°	-121.832097°	
DWR ID	1782				

**Comment Code**

**Inspector Comment**

FS\_ID:51991  
DS\_ID:1782  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 2 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 28+18""A"""). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18""A""").]  
FS Date: 5/31/2017 2:31:05 PM

LM Start	<b>11.36</b>	Rating **	A/W	Issue No.	<b>923 (cont)</b>
LM End	<b>11.36</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_51991\_68009.jpg



Headwall and flap gates at WS toe.

Photo 2 of 2 : UCIP\_FA\_2018\_51991\_68008.jpg



Headwall at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	11.37	Rating **	A/W	Issue No.	924
LM End	11.37	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556693 °	39.556693 °
				-121.832119 °	-121.832119 °
DWR ID	1783				

**Comment Code**

**Inspector Comment**

FS\_ID:51992  
DS\_ID:1783  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 3 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 28+18""A"""). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18""A""").]  
FS Date: 5/31/2017 2:32:13 PM

LM Start	<b>11.37</b>	Rating **	A/W	Issue No.	<b>924 (cont)</b>
LM End	<b>11.37</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_51992\_68011.jpg



Headwall and flap gates at WS toe.

Photo 2 of 2 : UCIP\_FA\_2018\_51992\_68010.jpg



Headwall on LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	11.37	Rating **	A/W	Issue No.	925
LM End	11.37	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.556681 °	39.556681 °
				-121.832130 °	-121.832130 °
DWR ID	1784				
Comment Code					
Inspector Comment					
FS_ID:51993 DS_ID:1784 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/16/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/15/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/11/2016 Crossing appears to be in good condition.8/4/2015 Crossing appears in good condition. No noticeable issues to report.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection. FIELD_STRUCT_DESC: 4 of 4: 54-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 28+18""A"""). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 25+18""A""").] FS Date: 5/31/2017 2:32:54 PM					

LM Start	11.37	Rating **	A/W	Issue No.	925 (cont)
LM End	11.37	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_51993\_68013.jpg



Headwall and flap gates at WS toe.

Photo 2 of 2 : UCIP\_FA\_2018\_51993\_68012.jpg



Headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	13.69	Rating **	M	Issue No.	69
LM End	13.69	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.531032 °	39.531032 °
				-121.856977 °	-121.856977 °
DWR ID	DWR_MA0005_01_s_2017_69				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the landside slope and toe.					

Photo 1 of 1 : FA\_2018\_MA0005\_196\_69\_20180905\_00033.jpg



Repair the erosion along the landside slope and toe.

LM Start	14.46	Rating **	M	Issue No.	927
LM End	14.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.522200 °	39.522200 °
				-121.865592 °	-121.865592 °
DWR ID	1639				
Comment Code					
Inspector Comment					
FS_ID:51999					
DS_ID:1639					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: 5/16/2017 Soil still eroded away from the WS wing walls. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 No soil supporting the WS wing walls. (DWR Sutter Yard- AFreitag)5/11/2016 Still no soil supporting the WS wing walls and apron. WS vegetation was thinner and not a problem this time.8/4/2015 No soil supporting the WS wing walls at the WS pipe end. WS pipe end is also being overgrown with vegetation and should be cleared back.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/31/2012 Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls.					
FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS ends. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 978+25). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 978+24.95)].					
FS Date: 5/31/2017 2:39:05 PM					

Photo 1 of 3 : UCIP\_FA\_2018\_51999\_68033.jpg



Headwall at inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Butte Creek	Left	15.08	10/30/2018 10/30/2018	Bob Duffey

LM Start	14.46	Rating **	M	Issue No.	927 (cont)	
LM End	14.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.522200 °	39.522200 °	
				-121.865592 °	-121.865592 °	
DWR ID	1639					
Comment Code						
Inspector Comment						
FS_ID:51999 DS_ID:1639 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/16/2017 Soil still eroded away from the WS wing walls. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/15/2016 No soil supporting the WS wing walls. (DWR Sutter Yard- AFreitag)5/11/2016 Still no soil supporting the WS wing walls and apron. WS vegetation was thinner and not a problem this time.8/4/2015 No soil supporting the WS wing walls at the WS pipe end. WS pipe end is also being overgrown with vegetation and should be cleared back.6/11/2014 Same as last inspection.11/19/2013 Same as last inspection.5/29/2013 Same as last inspection.10/31/2012 Soil under Concrete wing walls on WS toe has been eroded. No soil supporting wing walls. FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 13 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on the landside (LS) and the WS ends. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 978+25). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 978+24.95)]. FS Date: 5/31/2017 2:39:05 PM						

LM Start	<b>14.46</b>	Rating **	M	Issue No.	<b>927 (cont)</b>
LM End	<b>14.46</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_51999\_68032.jpg



CMP pipe, flap gate, and headwall on WS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_51999\_68031.jpg



Wingwalls of headwall not supported by soil.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	1.60	Rating **	M	Issue No.	69
LM End	1.60	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.534170 °	39.534170 °
				-121.856853 °	-121.856853 °
DWR ID	DWR_MA0005_02_s_2017_69				
Comment Code					
DE : Debris					
Inspector Comment					
Remove the debris from the waterside toe.					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_69\_20180905\_00036.jpg



View of the debris along the waterside toe.

LM Start	1.90	Rating **	M	Issue No.	49
LM End	1.90	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.537445 °	39.537445 °
				-121.853112 °	-121.853112 °
DWR ID	DWR_MA0005_02_f_2016_49				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion on the landside toe of the levee.					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_49\_20180905\_00024.jpg



View of the landside toe erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	1.91	Rating **	U	Issue No.	72
LM End	1.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID	1645				

**Comment Code**

**Inspector Comment**

FS\_ID:53009  
DS\_ID:1645  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/5/2018 Unable to see pipe on waterside due to high water level in the creek. Erosion is present around headwall on LS. Screw gate on LS blocked with silt approximately halfway in height. (O.Yakimov - DWR) 5/18/2017 LS erosion still present. Ws flap gate has been completely buried by sediment after the high water flows through the area. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. (DWR Sutter Yard- AFreitag)5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - afreitag)7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - afreitag)11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - afreitag)6/4/2014 Same as last inspection. (DWR Sutter Yard - afreitag)11/12/2013 Same as last inspection. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylie)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwalls at both the LS and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, (Station 902+50). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 902+50)].  
FS Date: 10/5/2018 11:20:19 AM

Photo 1 of 3 : UCIP\_FA\_2018\_53009\_68497.jpg



Flap gate on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	1.91	Rating **	U	Issue No.	72 (cont)
LM End	1.91	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID	1645				

**Comment Code**

**Inspector Comment**

FS\_ID:53009  
DS\_ID:1645  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/5/2018 Unable to see pipe on waterside due to high water level in the creek. Erosion is present around headwall on LS. Screw gate on LS blocked with silt approximately halfway in height. (O.Yakimov - DWR) 5/18/2017 LS erosion still present. Ws flap gate has been completely buried by sediment after the high water flows through the area. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag) 11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. (DWR Sutter Yard- A Freitag) 5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - a Freitag) 7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - a Freitag) 11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - a Freitag) 6/4/2014 Same as last inspection. (DWR Sutter Yard - a Freitag) 11/12/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 6/6/2013 Same as last inspection. (DWR Sutter Yard - a Freitag) 10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylie)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwalls at both the LS and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, (Station 902+50). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 902+50)].  
FS Date: 10/5/2018 11:20:19 AM

Photo 2 of 3 : UCIP\_FA\_2018\_53009\_68496.jpg



Flap gate on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	<b>1.91</b>	Rating **	U	Issue No.	<b>72 (cont)</b>
LM End	<b>1.91</b>	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.537455 °	39.537455 °
				-121.853061 °	-121.853061 °
DWR ID	1645				

**Comment Code**

**Inspector Comment**

FS\_ID:53009  
DS\_ID:1645  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 10/5/2018 Unable to see pipe on waterside due to high water level in the creek. Erosion is present around headwall on LS. Screw gate on LS blocked with silt approximately halfway in height. (O.Yakimov - DWR) 5/18/2017 LS erosion still present. Ws flap gate has been completely buried by sediment after the high water flows through the area. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS erosion still present and is into the prism of the levee. WS flap gate was still mostly buried and non-operational. (DWR Sutter Yard- AFreitag)5/23/2016 The tree that was overgrowing the WS flapgate has been removed. Flap gate was half buried and unable to open. Erosion on the LS is still present. (DWR Sutter Yard - afreitag)7/28/2015 LS inlet is underwater but there appears to be erosion behind the LS headwall. WS pipe end and flap gate are completely overgrown and inaccessible for inspection. (DWR Sutter Yard - afreitag)11/25/2014 Tree is overgrowing the WS pipe outlet.. Needs to be trimmed back. (DWR Sutter Yard - afreitag)6/4/2014 Same as last inspection. (DWR Sutter Yard - afreitag)11/12/2013 Same as last inspection. (DWR Sutter Yard - afreitag)6/6/2013 Same as last inspection. (DWR Sutter Yard - afreitag)10/31/2012 Vegetation needs to be cleared from outlet. (DWR UCIP - wwylie)  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 17 feet below the crown. Flap gate on the waterside (WS). Slide gate on the landside (LS) toe. Concrete headwalls at both the LS and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, (Station 902+50). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 5, April 1950, (Station 902+50)].  
FS Date: 10/5/2018 11:20:19 AM

Photo 3 of 3 : UCIP\_FA\_2018\_53009\_74600.jpg



WS flap gate overgrown with vegetation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	2.80	Rating **	A	Issue No.	63
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.548043 °	39.548043 °
				-121.843612 °	-121.843612 °
DWR ID	DWR_MA0005_02_f_2018_63				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
The vegetation was mowed on both slope.					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_63\_20181102\_00100.jpg



View of the mowed vegetation on both slopes.

LM Start	3.10	Rating **	M	Issue No.	64
LM End	3.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.551747 °	39.551747 °
				-121.840568 °	-121.840568 °
DWR ID	DWR_MA0005_02_s_2018_64				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the tree from the landside slope and toe.					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_64\_20180905\_00033.jpg



View of the tree on the landside slope and toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	<b>4.03</b>	Rating **	A/W	Issue No.	<b>74</b>
LM End	<b>4.03</b>	Issue Type +	Ma	Location *	
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		39.562271 °	39.562271 °	
			-121.829610 °	-121.829610 °	
DWR ID	1647				

**Comment Code**

**Inspector Comment**

FS\_ID:52014  
DS\_ID:1647  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Tree near the LS screw gate could use some trimming. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A/Freitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A/Freitag)5/23/2016 Crossing appears to be in good condition.7/28/2015 Pipe appears in good condition. No noticeable issues to report.6/6/2013 Same as last inspection.11/12/2013 Same as last inspection.6/04/2014 Same as last inspection.11/25/2014 Same as last inspection.  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Slide gate on the landside (LS). Flap gate on the waterside (WS). Concrete headwall at the LS toe. Concrete splash apron on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 5+20'"A"''). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 5+20'"A"'')].  
FS Date: 6/1/2017 9:47:13 AM

LM Start	<b>4.03</b>	Rating **	A/W	Issue No.	<b>74 (cont)</b>
LM End	<b>4.03</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_52014\_68064.jpg



Concrete headwall and slide gate at LS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_52014\_68063.jpg



Concrete headwall and slide gate at LS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	4.03	Rating **	A/W	Issue No.	74 (cont)	
LM End	4.03	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.562271 °	39.562271 °	
				-121.829610 °	-121.829610 °	
DWR ID	1647					
Comment Code						
Inspector Comment						
FS_ID:52014 DS_ID:1647 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Tree near the LS screw gate could use some trimming. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/23/2016 Crossing appears to be in good condition.7/28/2015 Pipe appears in good condition. No noticeable issues to report.6/6/2013 Same as last inspection.11/12/2013 Same as last inspection.6/04/2014 Same as last inspection.11/25/2014 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Slide gate on the landside (LS). Flap gate on the waterside (WS). Concrete headwall at the LS toe. Concrete splash apron on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 5+20""A"""). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 4, April 1950, (Station 5+20""A""").]. FS Date: 6/1/2017 9:47:13 AM						

Photo 3 of 3 : UCIP\_FA\_2018\_52014\_68062.jpg



Flap gate at outlet on WS berm.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	5.35	Rating **	M	Issue No.	75
LM End	5.35	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.576008 °	39.576008 °
				-121.812599 °	-121.812599 °
DWR ID	1650				

**Comment Code**

**Inspector Comment**

FS\_ID:52042  
DS\_ID:1650  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 Abandoned- only WS riser found. (DWR Sutter Yard- AFreitag)11/14/2016 Abandoned. (DWR Sutter Yard- AFreitag)5/23/2016 Abandoned7/28/2015 Abandoned- still cannot locate a LS ans WS pipe end.11/25/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Appears abandoned. Unable to locate outfall on WS. Unable to locate inlet on LS.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate and flap gate in a 56-inch corrugated metal riser on the waterside (WS) berm. Flap gate on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 688+40). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 688+40)].  
FS Date: 6/1/2017 1:00:06 PM

LM Start	<b>5.35</b>	Rating **	M	Issue No.	<b>75 (cont)</b>
LM End	<b>5.35</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_52042\_68105.jpg



Slide gate and flap gate inside CMP riser on WS berm.

Photo 2 of 2 : UCIP\_FA\_2018\_52042\_68104.jpg



56-inch CMP riser on WS berm.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	6.47	Rating **	A/W	Issue No.	76
LM End	6.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.589146°	39.589146°
				-121.800463°	-121.800463°
DWR ID	1654				
Comment Code					
Inspector Comment					
FS_ID:52049 DS_ID:1654 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/23/2016 Crossing appears to be in good condition.7/28/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at both the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 627+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 627+00)]. FS Date: 6/1/2017 1:10:07 PM					

LM Start	<b>6.47</b>	Rating **	A/W	Issue No.	<b>76 (cont)</b>
LM End	<b>6.47</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_52049\_68122.jpg



Flap gate on WS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_52049\_68121.jpg



Headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	6.47	Rating **	A/W	Issue No.	76 (cont)	
LM End	6.47	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.589146°	39.589146°	
				-121.800463°	-121.800463°	
DWR ID	1654					
Comment Code						
Inspector Comment						
FS_ID:52049 DS_ID:1654 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/23/2016 Crossing appears to be in good condition. 7/28/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/04/2014 Same as last inspection. 11/12/2013 Same as last inspection. 6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 9.4 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls at both the landside (LS) and the WS toes. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 515, April 1955, (Station 627+00). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 3, April 1950, (Station 627+00)]. FS Date: 6/1/2017 1:10:07 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_52049\_68120.jpg



Headwall on LS toe.

LM Start	7.74	Rating **	U	Issue No.	53
LM End	7.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.605088 °	39.605088 °
				-121.788569 °	-121.788569 °
DWR ID	DWR_MA0005_02_f_2016_53				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_MA0005\_197\_53\_20180905\_00025.jpg



View of the rodent holes along the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	7.74	Rating **	U	Issue No.	53 (cont)	
LM End	7.74	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			39.605088 °		39.605088 °
				-121.788569 °		-121.788569 °
DWR ID	DWR_MA0005_02_f_2016_53					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						

Photo 2 of 2 : FA\_2018\_MA0005\_197\_53\_20180905\_00026.jpg



View of the rodent holes along the crown and waterside slope.

LM Start	7.98	Rating **	M	Issue No.	13
LM End	7.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.607710 °	39.607710 °
				-121.785868 °	-121.785868 °
DWR ID	DWR_MA0005_02_s_2012_13				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 2 : FA\_2018\_MA0005\_197\_13\_20180905\_00005.jpg



View of the vehicle erosion along the slope.

LM Start	<b>7.98</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>7.98</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : FA\_2018\_MA0005\_197\_13\_20180905\_00006.jpg



View of the vehicle erosion along the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.00	Rating **	M	Issue No.	77
LM End	8.00	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.607802 °	39.607802 °
				-121.785597 °	-121.785597 °
DWR ID	1656				
Comment Code					
Inspector Comment					
FS_ID:52052 DS_ID:1656 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 LS inlet is almost completely full of soil. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 LS inlet almost completely full of soil. (DWR Sutter Yard- A Freitag)5/23/2016 LS end is almost completel full of soil.7/28/2015 Pipe is still over 3/4 full of soil. 11/24/2014 Same as last inspection.6/04/2014 Same as last inspection.11/12/2013 Same as last inspection.6/6/2013 Same as last inspection.10/31/2012 Pipe 3/4 full with soil on LS. FIELD_STRUCT_DESC: 24-inch (not 18-inch as shown in as-built drawing) corrugated metal drainage pipe through the levee, 6.7 feet below the crown. Concrete headwall at the landside (LS) toe. Flap gate on the waterside (WS). [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 379+98). USACE As-Built Drawing No. 50-4-2637, Exhibit B, Sheet 2, April 1950, (Station 550+60)]. FS Date: 6/1/2017 1:15:55 PM					

LM Start	<b>8.00</b>	Rating **	M	Issue No.	<b>77 (cont)</b>
LM End	<b>8.00</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_52052\_68129.jpg



Flap gate at WS toe.

Photo 2 of 2 : UCIP\_FA\_2018\_52052\_68128.jpg



Concrete headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.06	Rating **	M	Issue No.	40
LM End	8.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.608563°	39.608563°
				-121.785058°	-121.785058°
DWR ID	DWR_MA0005_02_f_2014_40				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_40\_20180905\_00016.jpg



View of the vehicle slope instability along the landside slope.

LM Start	8.11	Rating **	A/W	Issue No.	78	
LM End	8.11	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.609162 °		39.609162 °
				-121.784647 °		-121.784647 °
DWR ID	1662					
Comment Code						
Inspector Comment						
FS_ID:52059 DS_ID:1662 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing is in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection..6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 16.3 feet below the crown. Flap gate on the waterside (WS). Concrete ""U"" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 374+90). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 13, April 1957, (Station 374+90)]. FS Date: 6/1/2017 1:25:58 PM						

Photo 1 of 3 : UCIP\_FA\_2018\_52059\_68394.jpg



Concrete inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.11	Rating **	A/W	Issue No.	78 (cont)	
LM End	8.11	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.609162 °		39.609162 °
				-121.784647 °		-121.784647 °
DWR ID	1662					
Comment Code						
Inspector Comment						
FS_ID:52059 DS_ID:1662 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing is in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection..6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 30-inch corrugated metal drainage pipe through the levee, 16.3 feet below the crown. Flap gate on the waterside (WS). Concrete ""U"" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 374+90). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 13, April 1957, (Station 374+90)]. FS Date: 6/1/2017 1:25:58 PM						

Photo 2 of 3 : UCIP\_FA\_2018\_52059\_68393.jpg



Concrete inlet on LS toe.

LM Start	8.11	Rating **	A/W	Issue No.	78 (cont)
LM End	8.11	Issue Type +	Ma	Location *	

Photo 3 of 3 : UCIP\_FA\_2018\_52059\_68392.jpg



Concrete outlet and flap gate on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.77	Rating **	A/W	Issue No.	79
LM End	8.77	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.617747 °	39.617747 °
				-121.778964 °	-121.778964 °
DWR ID	1663				

**Comment Code**

**Inspector Comment**

FS\_ID:52061  
DS\_ID:1663  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag) 11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report. 11/24/2014 Same as last inspection. 6/4/2014 Same as last inspection. 11/13/2013 Damaged pipe section was dug up and replaced. New WS flapgate with u-shaped wingwall installed on end of pipe. 6/6/2013 Same as last inspection. Plans have been made to repair during summer of 2013 before high water season. 11/01/2012 Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS.  
[Additional Reference(s): DWR Levee Log, 1990. USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, (Station 340+04)].  
FS Date: 6/1/2017 1:27:46 PM

LM Start	<b>8.77</b>	Rating **	A/W	Issue No.	<b>79 (cont)</b>
LM End	<b>8.77</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_52061\_68397.jpg



Concrete U-shaped headwall on LS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_52061\_68396.jpg



Concrete U-shaped headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.77	Rating **	A/W	Issue No.	79 (cont)	
LM End	8.77	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.617747 °	39.617747 °	
				-121.778964 °	-121.778964 °	
DWR ID	1663					
Comment Code						
Inspector Comment						
FS_ID:52061 DS_ID:1663 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/12/2016 Crossing appears to be in good condition.7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Damaged pipe section was dug up and replaced. New WS flapgate with u-shaped wingwall installed on end of pipe.6/6/2013 Same as last inspection. Plans have been made to repair during summer of 2013 before high water season.11/01/2012 Pipe rusted through along bottom at WS outlet. Sink hole over pipe on WS berm. WS headwall eroded eternally around backside of headwall. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 15 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, (Station 340+04)]. FS Date: 6/1/2017 1:27:46 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_52061\_68395.jpg



Concrete U shaped outlet and flap gate at WS of Berm.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.80	Rating **	M	Issue No.	80	
LM End	8.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.618163°	39.618163°	
				-121.778745°	-121.778745°	
DWR ID	1664					
Comment Code						
Inspector Comment						
FS_ID:52062 DS_ID:1664 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 No LS slide gate but not sure its even needed. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard- A Freitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 338+04). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, April 1957, (Station 338+04)]. FS Date: 6/1/2017 1:29:34 PM						

LM Start	<b>8.80</b>	Rating **	M	Issue No.	<b>80 (cont)</b>
LM End	<b>8.80</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_52062\_68406.jpg



WS outlet and concrete U shaped headwall.

Photo 2 of 3 : UCIP\_FA\_2018\_52062\_68404.jpg



Brambles and soil over pipe at inlet.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	8.80	Rating **	M	Issue No.	80 (cont)	
LM End	8.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.618163 °	39.618163 °	
				-121.778745 °	-121.778745 °	
DWR ID	1664					
Comment Code						
Inspector Comment						
FS_ID:52062						
DS_ID:1664						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/18/2017 No LS slide gate but not sure its even needed. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 LS slide gate still missing. Rest of crossing appears in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 LS inlet was unburied. Slide gate still missing7/30/2015 LS inlet is still buried.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 LS inlet is buried under soil and covered with brambles. Slide gate missing from LS.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12 feet below the crown. Flap gate on the waterside (WS). Concrete headwall on the WS. Concrete headwall on the landside (LS), not found. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 338+04). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 11, April 1957, (Station 338+04)].						
FS Date: 6/1/2017 1:29:34 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_52062\_68403.jpg



Concrete U shaped headwall and flap gate at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	9.12	Rating **	A/W	Issue No.	81
LM End	9.12	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.622377°	39.622377°
				-121.776327°	-121.776327°
DWR ID	1665				
Comment Code					
Inspector Comment					
FS_ID:52063 DS_ID:1665 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 321+20)]. FS Date: 6/1/2017 1:32:51 PM					

LM Start	9.12	Rating **	A/W	Issue No.	81 (cont)
LM End	9.12	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_52063\_68413.jpg



Concrete U shaped headwall and flap gate on WS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_52063\_68412.jpg



Concrete U shaped headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	9.12	Rating **	A/W	Issue No.	81 (cont)	
LM End	9.12	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.622377°	39.622377°	
				-121.776327°	-121.776327°	
DWR ID	1665					
Comment Code						
Inspector Comment						
FS_ID:52063 DS_ID:1665 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/12/2016 Crossing appears to be in good condition. 7/30/2015 Crossing appears in good condition. No noticeable issues to report.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.3 feet below the crown. Flap gate on the waterside (WS). Concrete headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 321+20)]. FS Date: 6/1/2017 1:32:51 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_52063\_68411.jpg



Concrete U shaped headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	9.44	Rating **	M	Issue No.	82
LM End	9.44	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.626894 °	39.626894 °
				-121.775180 °	-121.775180 °
DWR ID	1666				
Comment Code					
Inspector Comment					
FS_ID:52064 DS_ID:1666 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 LS inlet half full of soil and WS flap gate half buried by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete ""U"" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 304+10). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 3, April 1957, (Station 304+10)]. FS Date: 6/1/2017 1:34:12 PM					

LM Start	<b>9.44</b>	Rating **	M	Issue No.	<b>82 (cont)</b>
LM End	<b>9.44</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_52064\_68417.jpg



View of outlet looking toward WS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_52064\_68416.jpg



View of inlet on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	9.44	Rating **	M	Issue No.	82 (cont)	
LM End	9.44	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.626894 °	39.626894 °	
				-121.775180 °	-121.775180 °	
DWR ID	1666					
Comment Code						
Inspector Comment						
FS_ID:52064						
DS_ID:1666						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: 5/18/2017 LS inlet half full of soil and WS flap gate half buried by sediment. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard-AFreitag)11/14/2016 LS pipe inlet is half full of soil. WS flap gate shut but half buried by sediment. (DWR Sutter Yard-AFreitag)5/12/2016 Pipe is half full of soil.7/30/2015 Pipe is 1/4 to 1/2 full of soil still.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection.11/01/2012 Pipe 1/2 filled with soil.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 11.2 feet below the crown. Flap gate on the waterside (WS). Concrete ""U"" shaped headwalls on both the landside (LS) and the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 304+10). USACE As-Built Drawing No. 50-4-3367, Exhibit B, Sheet 3, April 1957, (Station 304+10)].						
FS Date: 6/1/2017 1:34:12 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_52064\_68415.jpg



Concrete U-shaped headwall on LS toe.

LM Start	10.63	Rating **	M	Issue No.	18
LM End	10.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.642061 °	39.642061 °
				-121.783861 °	-121.783861 °
DWR ID	DWR_MA0005_02_s_2012_18				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_18\_20180905\_00007.jpg



View of the vehicle erosion along the slope of the levee.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	10.84	Rating **	M	Issue No.	68	
LM End	10.84	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			39.644722 °		39.644722 °
				-121.785945 °		-121.785945 °
DWR ID	DWR_MA0005_02_f_2018_68					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Remove the tree limbs from the landside slope and toe.						

Photo 1 of 1 : FA\_2018\_MA0005\_197\_68\_20181102\_00103.jpg



View of the trees limbs along the landside slope and toe.

LM Start	10.95	Rating **	M	Issue No.	58
LM End	10.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.646045 °	39.646045 °
				-121.786927 °	-121.786927 °
DWR ID	DWR_MA0005_02_f_2016_58				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_58\_20180905\_00030.jpg



View of the damaged landside slope.

LM Start	10.96	Rating **	M	Issue No.	59
LM End	10.99	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.646220 °	39.646598 °
				-121.787055 °	-121.787365 °
DWR ID	DWR_MA0005_02_f_2016_59				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	11.05	Rating **	M	Issue No.	26
LM End	11.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.647400 °	39.647400 °
				-121.787825 °	-121.787825 °
DWR ID	DWR_MA0005_02_f_2012_26				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

No Photos

LM Start	11.10	Rating **	M	Issue No.	36
LM End	11.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.647913 °	39.647913 °
				-121.788330 °	-121.788330 °
DWR ID	DWR_MA0005_02_s_2015_36				
Comment Code					
TR : Tree or limb					
Inspector Comment					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_36\_20180905\_00013.jpg



Remove the tree log from the landside toe.

LM Start	11.77	Rating **	M	Issue No.	71
LM End	11.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.657115 °	39.657115 °
				-121.788703 °	-121.788703 °
DWR ID	DWR_MA0005_02_f_2018_71				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Repair the rodent holes along the landside slope.					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_71\_20181102\_00106.jpg



View of the rodent holes along the landside slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	12.80	Rating **	M	Issue No.	85
LM End	12.80	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.670982 °	39.670982 °
				-121.783103 °	-121.783103 °
DWR ID	1673				

**Comment Code**

**Inspector Comment**

FS\_ID:52072  
DS\_ID:1673  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 5/18/2017 Abandoned- needs to be done properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- A Freitag)5/11/2016 Abandoned crossing. Needs a cover to the WS riser.8/3/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.6/6/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned. FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 126+91)].  
FS Date: 6/1/2017 1:52:47 PM

LM Start	<b>12.80</b>	Rating **	M	Issue No.	<b>85 (cont)</b>
LM End	<b>12.80</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_52072\_68465.jpg



Broken slide gate in CM riser on WS slope.

Photo 2 of 3 : UCIP\_FA\_2018\_52072\_68464.jpg



Abandoned headwall on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	<b>N : Not Inspected/Rated</b> C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	12.80	Rating **	M	Issue No.	85 (cont)	
LM End	12.80	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			39.670982 °		39.670982 °
				-121.783103 °		-121.783103 °
DWR ID	1673					
Comment Code						
Inspector Comment						
FS_ID:52072 DS_ID:1673 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 Abandoned- needs to be done properly. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Abandoned- needs a cover for standpipe. (DWR Sutter Yard- A Freitag)5/11/2016 Abandoned crossing. Needs a cover fo the WS riser.8/3/2015 Crossing appears abandoned. Only the slide gate inside riser on the WS shoulder could be found. Riser needs a cover made for it.11/24/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Slide gate top and stem were repaired to make gate operational.6/6/2013 New slidegate is planned to be installed during summer of 2013.11/01/2012 Slide gate on WS shoulder bent and damaged (inoperable) Pipe appears abandoned. FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a corrugated metal riser on the waterside (WS) slope. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 126+91)]. FS Date: 6/1/2017 1:52:47 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_52072\_68463.jpg



Broken slide gate in CM riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

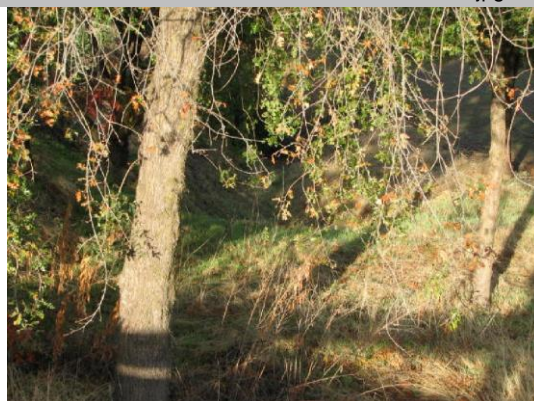
**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	13.40	Rating **	A/W	Issue No.	88
LM End	13.40	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.678550 °	39.678550 °
				-121.778339 °	-121.778339 °
DWR ID	1679				
Comment Code					
Inspector Comment					
FS_ID:52083 DS_ID:1679 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition. 8/3/2015 Crossing appears in good condition. No noticeable issues to report.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete ""U"" shaped headwall on the waterside (WS). Flap gate on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 93+78)]. FS Date: 6/1/2017 2:09:55 PM					

LM Start	<b>13.40</b>	Rating **	A/W	Issue No.	<b>88 (cont)</b>
LM End	<b>13.40</b>	Issue Type +	Ma	Location *	

Photo 1 of 3 : UCIP\_FA\_2018\_52083\_68531.jpg



Inlet relocated after bridge replacement away from LS toe.

Photo 2 of 3 : UCIP\_FA\_2018\_52083\_68530.jpg



Inlet 50-feet NW of levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

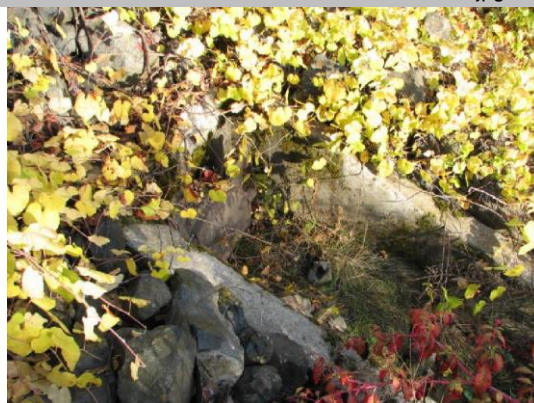
**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	13.40	Rating **	A/W	Issue No.	88 (cont)	
LM End	13.40	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.678550 °	39.678550 °	
				-121.778339 °	-121.778339 °	
DWR ID	1679					
Comment Code						
Inspector Comment						
FS_ID:52083 DS_ID:1679 EP_NO: N/A Repair Type: No Action Needed Crossing Status: Found UCIP Comments: 5/18/2017 Crossing appears to be in good condition. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)5/11/2016 Crossing appears to be in good condition. 8/3/2015 Crossing appears in good condition. No noticeable issues to report.11/25/2014 Same as last inspection.6/4/2014 Same as last inspection.11/13/2013 Same as last inspection.6/6/2013 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.5 feet below the crown. Concrete ""U"" shaped headwall on the waterside (WS). Flap gate on the WS. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 93+78)]. FS Date: 6/1/2017 2:09:55 PM						

Photo 3 of 3 : UCIP\_FA\_2018\_52083\_68533.jpg



Concrete U-shaped headwall and flap gate at WS slope.

LM Start	14.13	Rating **	M	Issue No.	43
LM End	14.13	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.688715 °	39.688715 °
				-121.778345 °	-121.778345 °
DWR ID	DWR_MA0005_02_f_2014_43				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
The landowner disked into the slope of the levee.					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_43\_20180905\_00019.jpg



View of the tilling into the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	14.39	Rating **	M	Issue No.	38
LM End	14.39	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.692284 °	39.692284 °
				-121.779394 °	-121.779394 °
DWR ID	DWR_MA0005_02_s_2016_38				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Fallen trees on WS slope of levee.					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_38\_20180905\_00014.jpg



5/5/2016: Remove fallen tree from WS slope.

LM Start	14.46	Rating **	A/W	Issue No.	91
LM End	14.46	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.693331 °	39.693331 °
				-121.779556 °	-121.779556 °
DWR ID	1682				
Comment Code					
Inspector Comment					
FS_ID:52086					
DS_ID:1682					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments: 5/18/2017 Crossing appears to be in good condition.					
Pipe has been selected to be internally cleaned and inspected as part					
of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016					
Crossing appears to be in good condition. (DWR Sutter Yard-					
AFreitag)5/11/2016 Crossing appears to be in good					
condition.8/3/2015 Crossing appears in good condition. No					
noticeable issues to report.11/25/2014 Same as last					
inspection.6/4/2014 Same as last inspection.11/13/2013 Same as					
last inspection.6/6/2013 Same as last inspection.					
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe					
through the levee, 7.2 feet below the crown. Concrete ""U"" shaped					
headwall and grouted spillway on the waterside (WS). Slide gate in a 48-					
inch concrete standpipe on the landside (LS). Flap gate on the WS.					
[Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento					
O&M Manual 516, April 1960, (Station 37+10)].					
FS Date: 6/1/2017 2:13:46 PM					

Photo 1 of 3 : UCIP\_FA\_2018\_52086\_68544.jpg



Outlet at U-shaped headwall on WS toe.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	14.46	Rating **	A/W	Issue No.	91 (cont)	
LM End	14.46	Issue Type +	Ma	Location *		
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			39.693331 °	39.693331 °	
				-121.779556 °	-121.779556 °	
DWR ID	1682					
Comment Code						
Inspector Comment						
FS_ID:52086						
DS_ID:1682						
EP_NO: N/A						
Repair Type: No Action Needed						
Crossing Status: Found						
UCIP Comments: 5/18/2017 Crossing appears to be in good condition.						
Pipe has been selected to be internally cleaned and inspected as part						
of the DMP project. (DWR Sutter Yard- AFreitag)11/14/2016						
Crossing appears to be in good condition. (DWR Sutter Yard-						
AFreitag)5/11/2016 Crossing appears to be in good						
condition.8/3/2015 Crossing appears in good condition. No						
noticeable issues to report.11/25/2014 Same as last						
inspection.6/4/2014 Same as last inspection.11/13/2013 Same as						
last inspection.6/6/2013 Same as last inspection.						
FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe						
through the levee, 7.2 feet below the crown. Concrete ""U"" shaped						
headwall and grouted spillway on the waterside (WS). Slide gate in a 48-						
inch concrete standpipe on the landside (LS). Flap gate on the WS.						
[Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento						
O&M Manual 516, April 1960, (Station 37+10)].						
FS Date: 6/1/2017 2:13:46 PM						

LM Start	<b>14.46</b>	Rating **	A/W	Issue No.	<b>91 (cont)</b>
LM End	<b>14.46</b>	Issue Type +	Ma	Location *	

Photo 2 of 3 : UCIP\_FA\_2018\_52086\_68543.jpg



Concrete lined channel on LS toe.

Photo 3 of 3 : UCIP\_FA\_2018\_52086\_68542.jpg



Concrete standpipe and slide gate on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	14.47	Rating **	M	Issue No.	92
LM End	14.47	Issue Type +	Ma	Location *	
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			39.693406 °	39.693406 °
				-121.779583 °	-121.779583 °
DWR ID	1683				
Comment Code					
Inspector Comment					
FS_ID:52087 DS_ID:1683 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 5/18/2017 WS appears to be in good condition. LS inlet is across a ditch and inaccessible for inspection due to dense vegetation and being down a very steep slope. Pipe has been selected to be internally cleaned and inspected as part of the DMP project. (DWR Sutter Yard- A Freitag)11/14/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)5/11/2016 Crossing appears to be in good condition.8/3/2015 Crossing appears in good condition. No noticeable issues to report.6/6/2013 Same as last inspection.11/13/2013 Same as last inspection.6/4/2014 Same as last inspection.11/25/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14.3 feet below the crown. Concrete ""U"" headwalls on both the landside (LS) and the waterside (WS). Flap gate on the WS. Inlet downhill from a concrete lined channel at the low point on the LS toe. [Additional Reference(s): DWR Levee Log, 1990. USACE Sacramento O&M Manual 516, April 1960, (Station 36+85)]. FS Date: 6/1/2017 2:14:24 PM					

LM Start	<b>14.47</b>	Rating **	M	Issue No.	<b>92 (cont)</b>
LM End	<b>14.47</b>	Issue Type +	Ma	Location *	

Photo 1 of 2 : UCIP\_FA\_2018\_52087\_68541.jpg



Inlet at LS toe.

Photo 2 of 2 : UCIP\_FA\_2018\_52087\_68540.jpg



Outlet at WS toe with flap gate and concrete U-shaped headwall.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Butte Creek	Right	16.27	10/30/2018 10/30/2018	Bob Duffey

LM Start	16.05	Rating **	M	Issue No.	39
LM End	16.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.714016 °	39.714016 °
				-121.782317 °	-121.782317 °
DWR ID	DWR_MA0005_02_f _ 2016_39				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Backfill and compact the rodent holes.					

Photo 1 of 1 : FA\_2018\_MA0005\_197\_39\_20180905\_00015.jpg



View of the rodent holes along the landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2018**

**Sutter Maintenance Yard Maintenance Area 0005**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 03 Little Chico Creek Diversion	Left	1.49	10/30/2018 10/30/2018	Bob Duffey

LM Start	0.53	Rating **	A	Issue No.	2
LM End	0.53	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.723985 °	39.723985 °
				-121.780663 °	-121.780663 °
DWR ID	DWR_MA0005_03_f _ 2018_2				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
There is no vegetation on both slopes.					

Photo 1 of 1 : FA\_2018\_MA0005\_198\_2\_20181102\_00001.jpg



View of no vegetation on both slopes.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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